

FIG.1

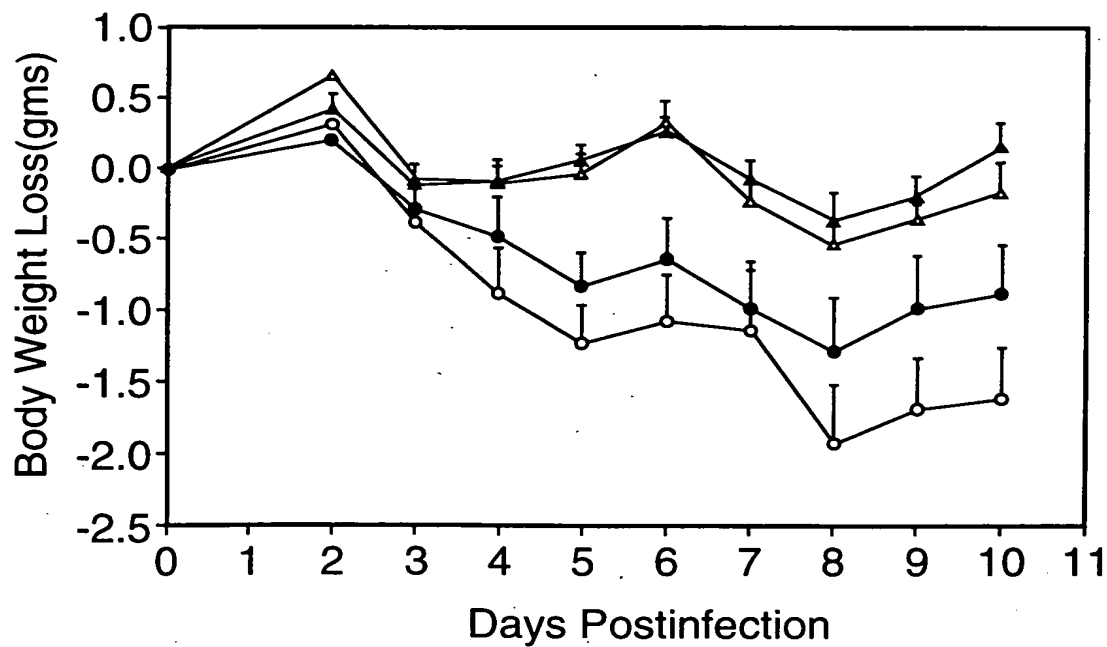


FIG.2A

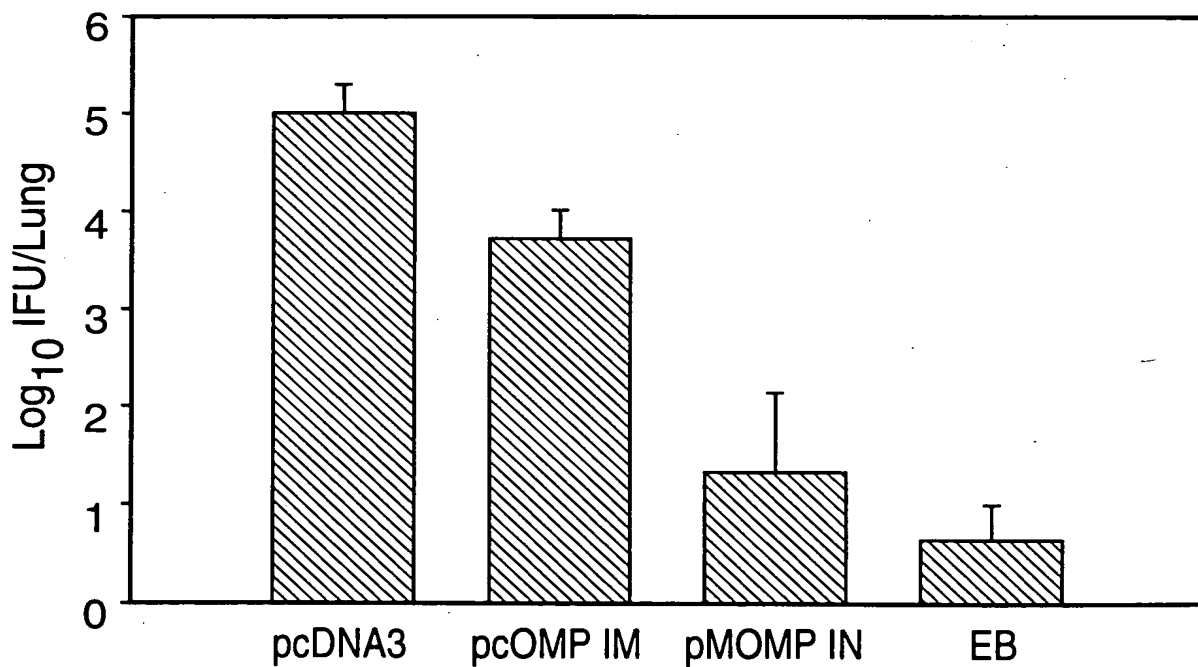


FIG.2B

204070 205920

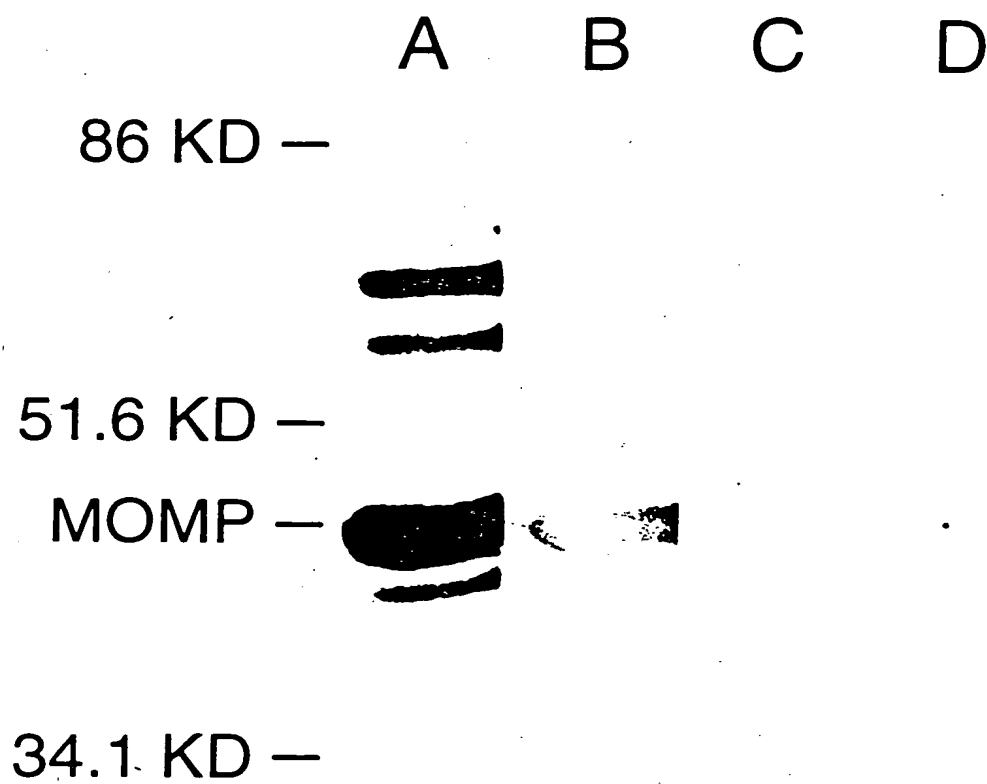


FIG.3

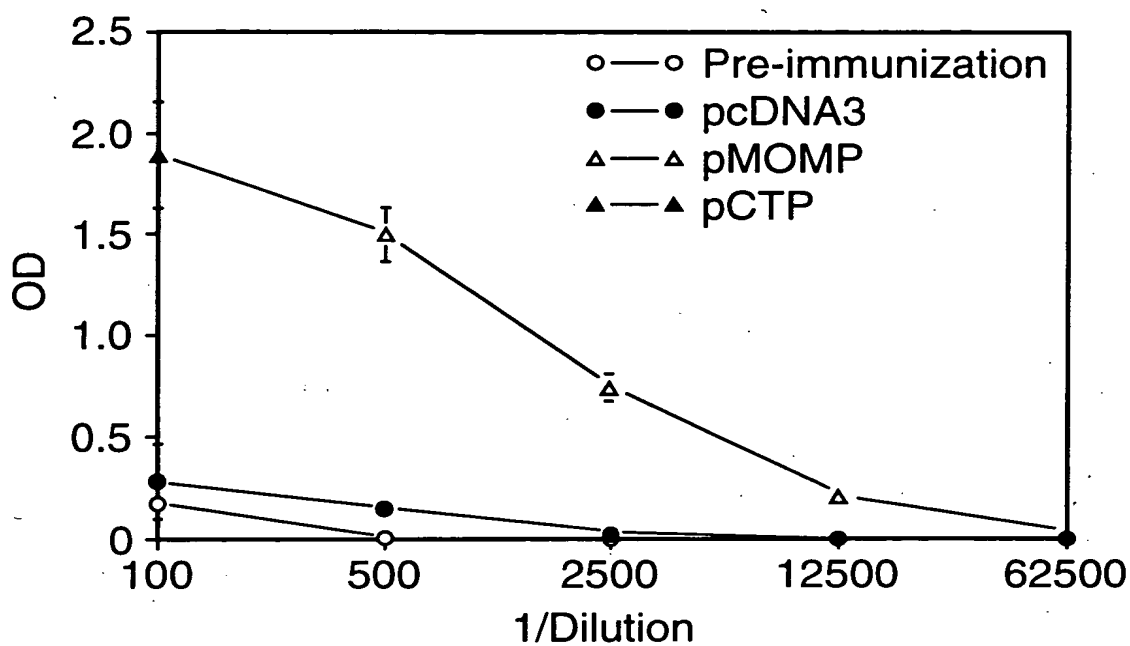


FIG.4A

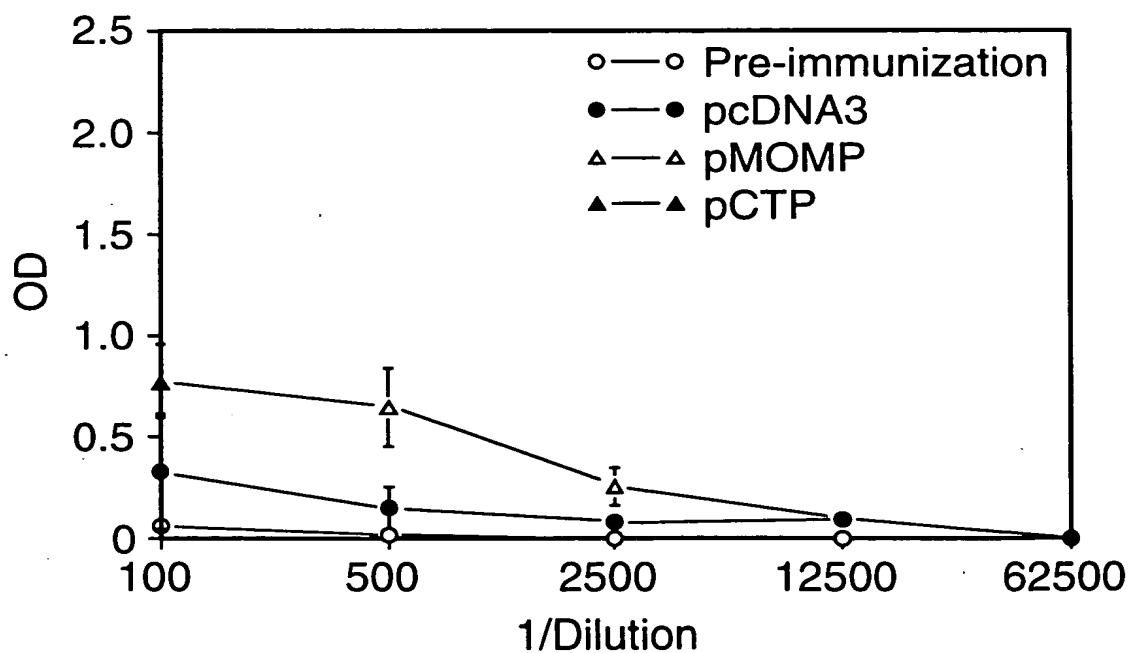


FIG.4B

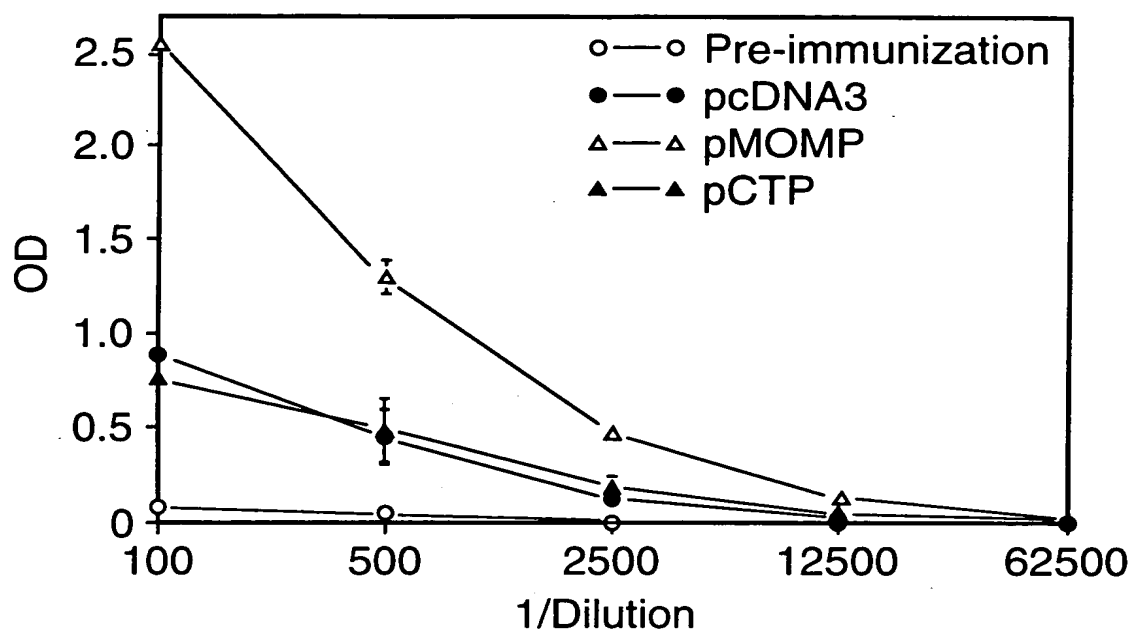


FIG.4C

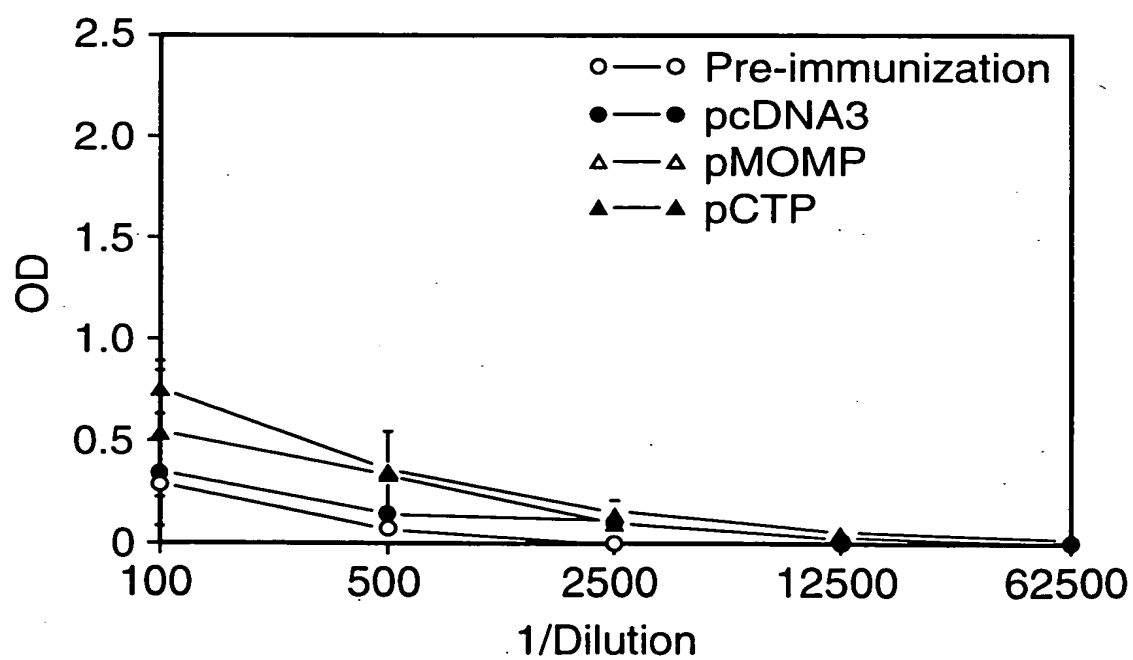


FIG.4D

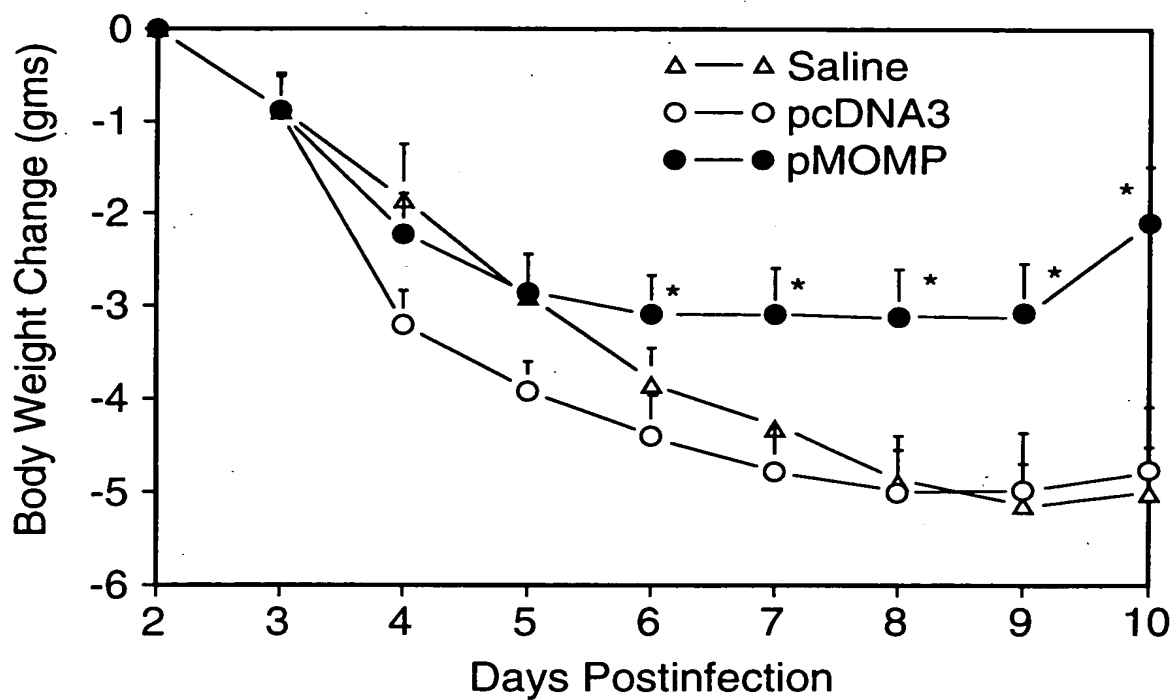


FIG.5A

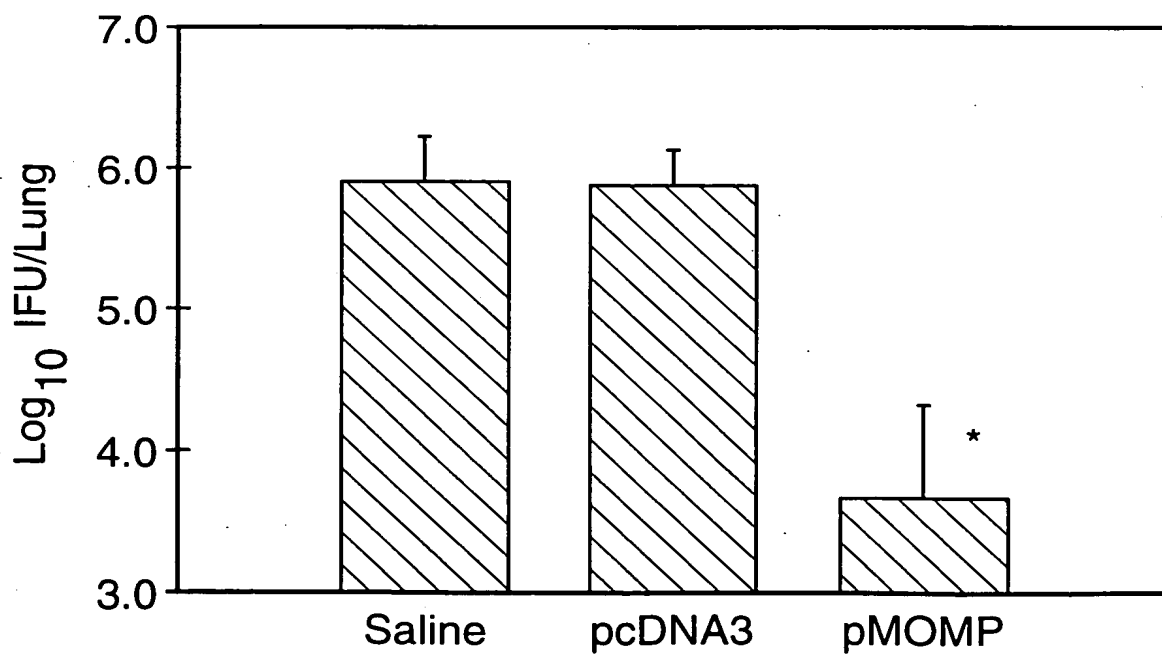


FIG.5B

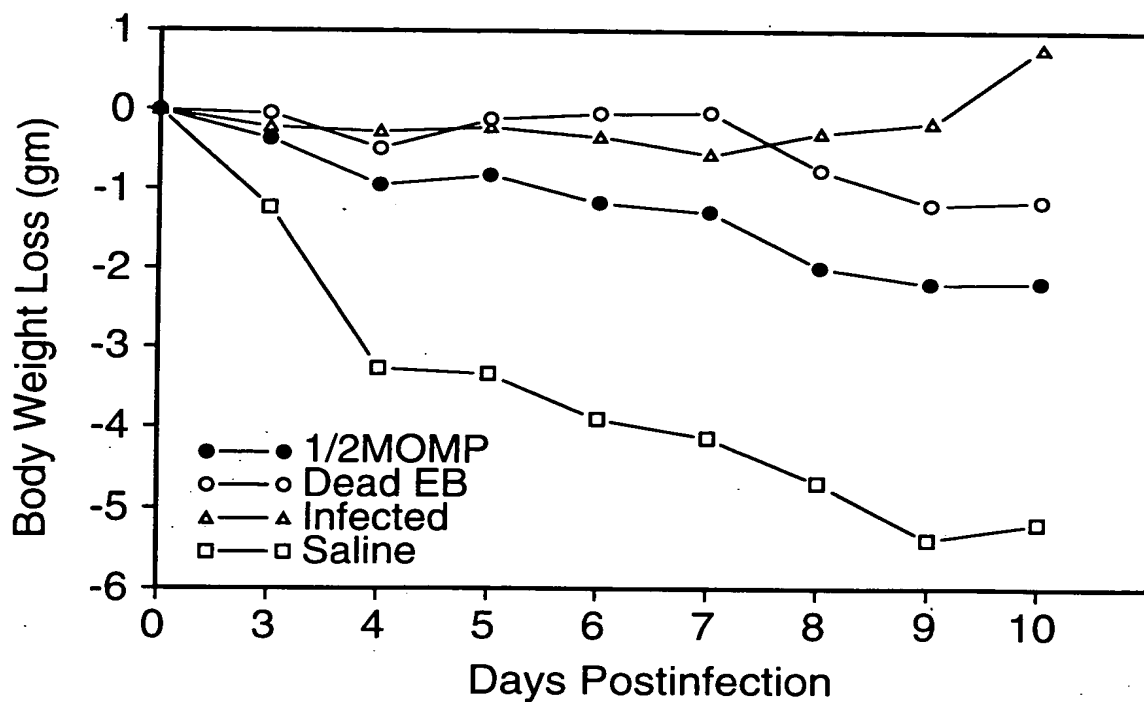


FIG.6A

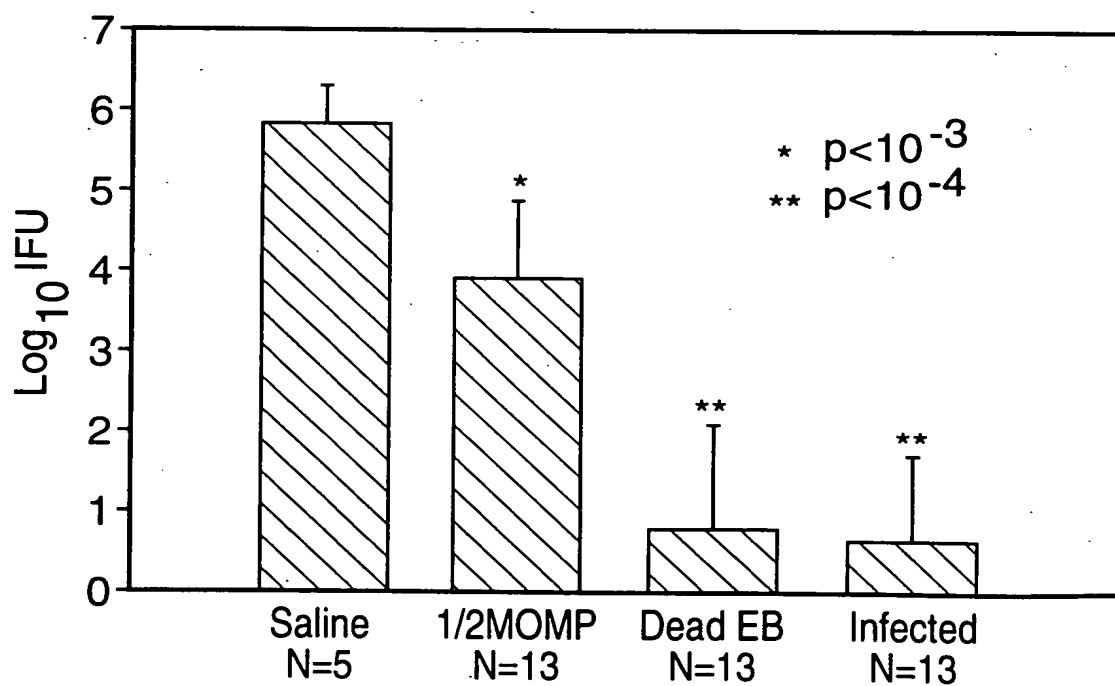


FIG.6B

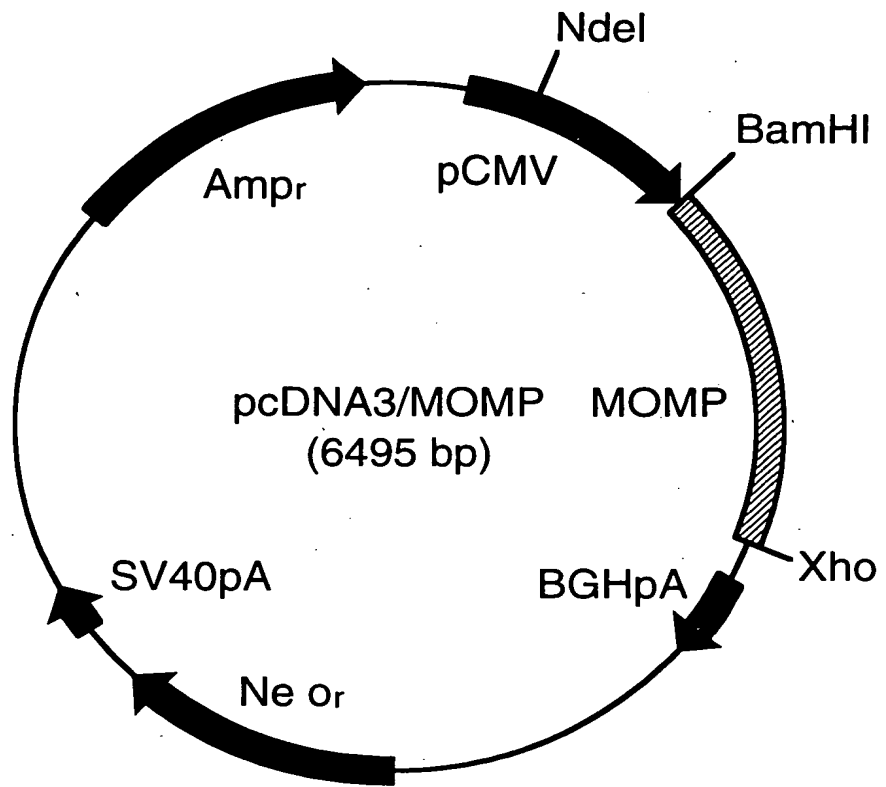


FIG.7



MoPn MOMP gene (nucleotide number of mature MOMP)

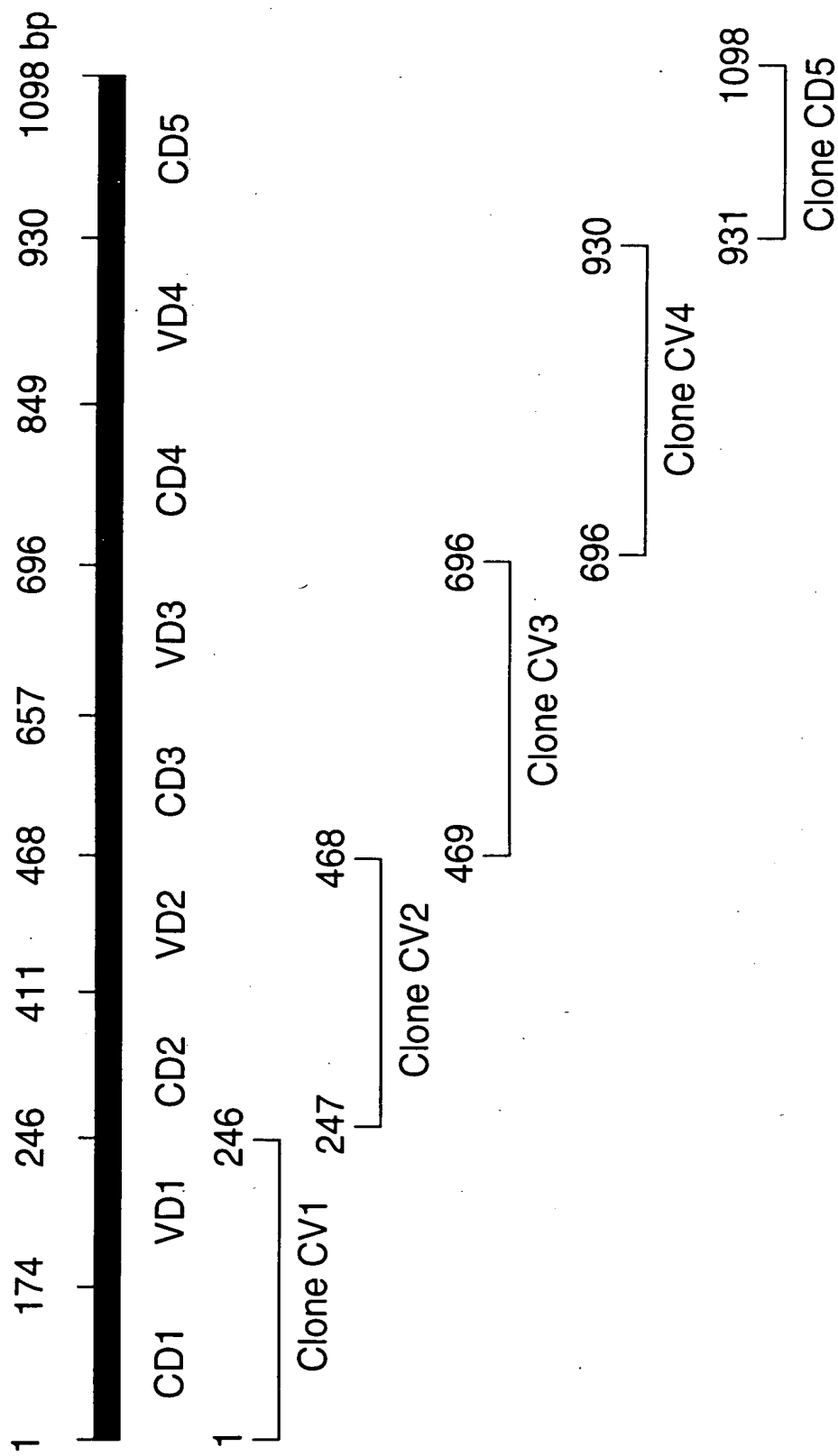


FIG.8

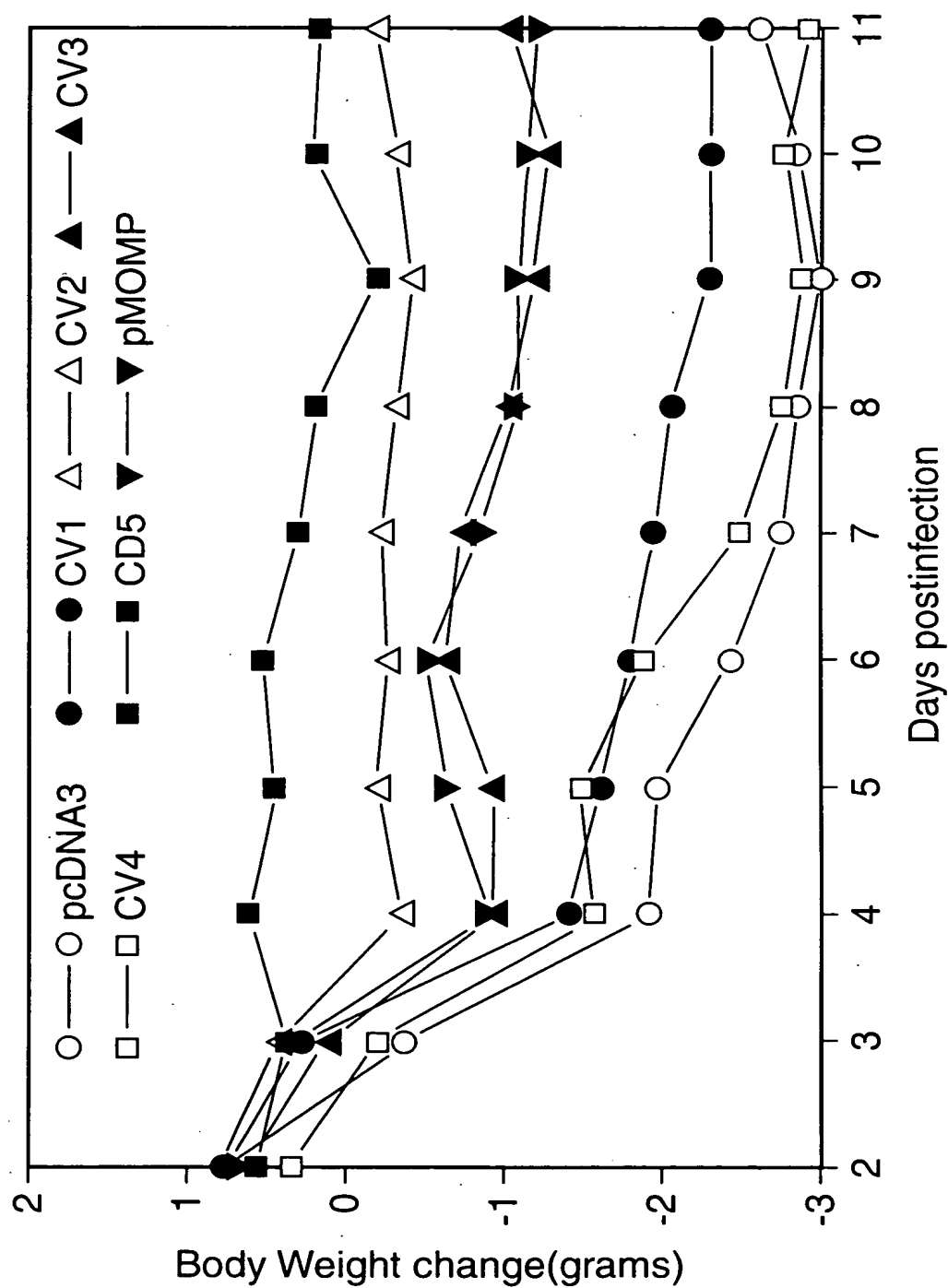


FIG. 9

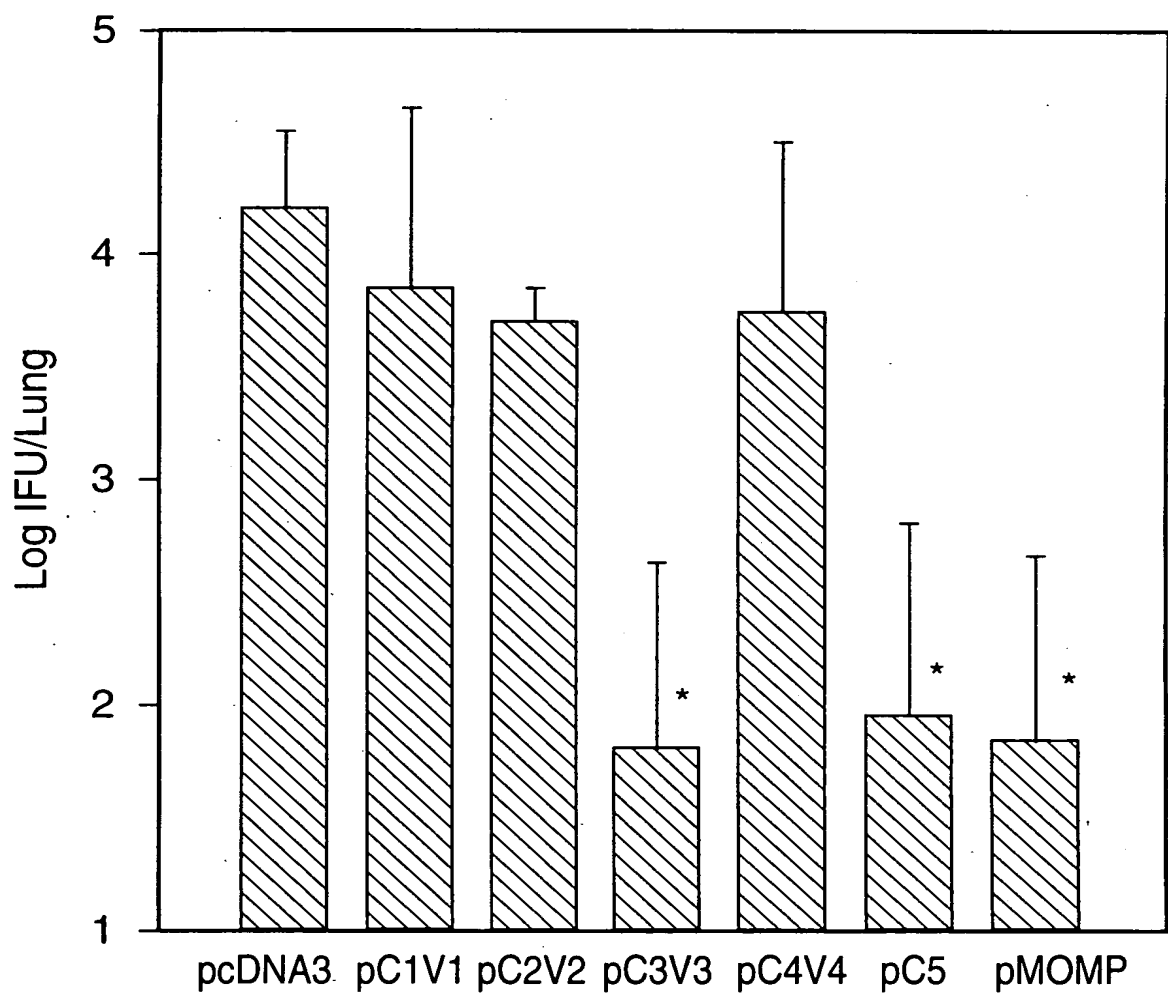


FIG.10

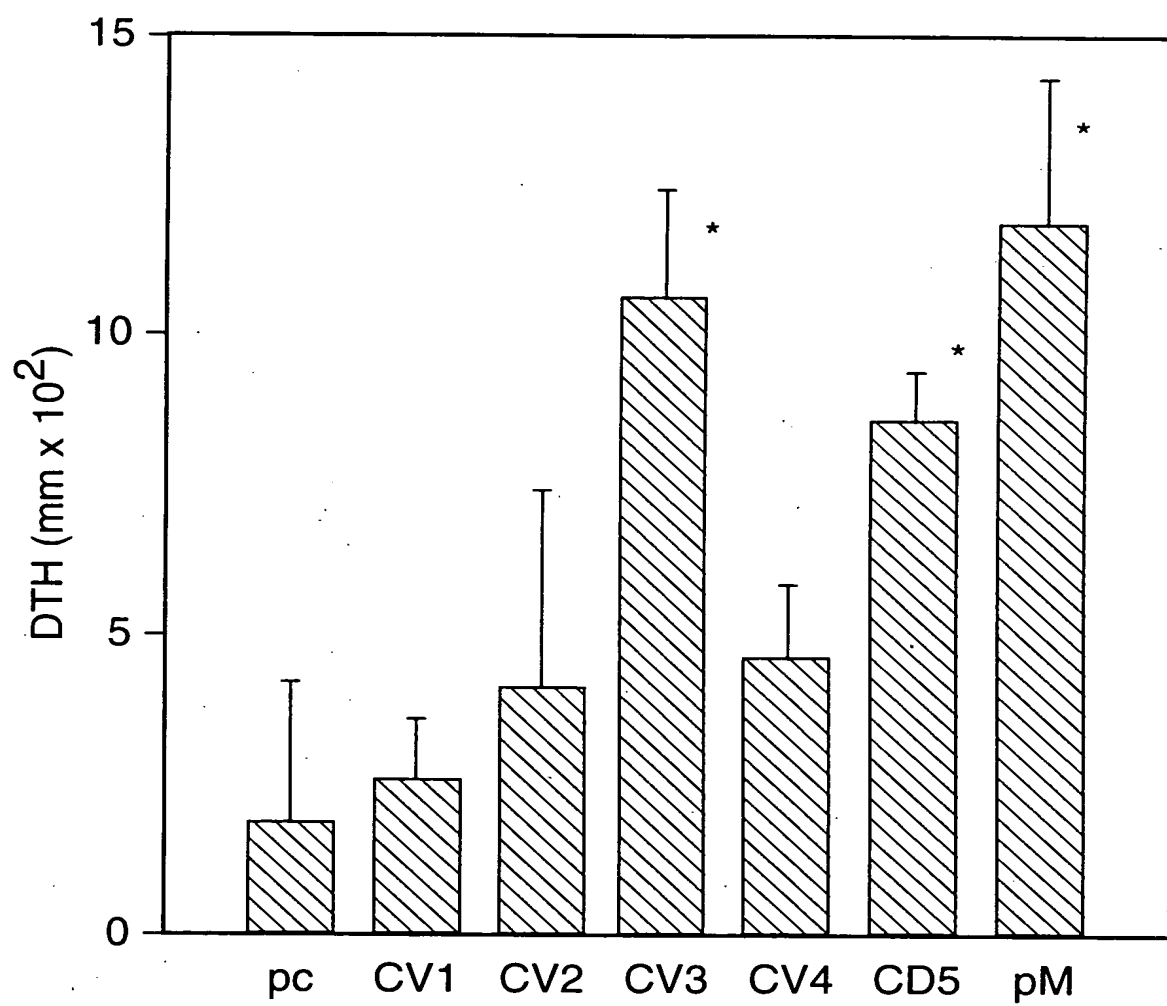


FIG.11

204070-2099001

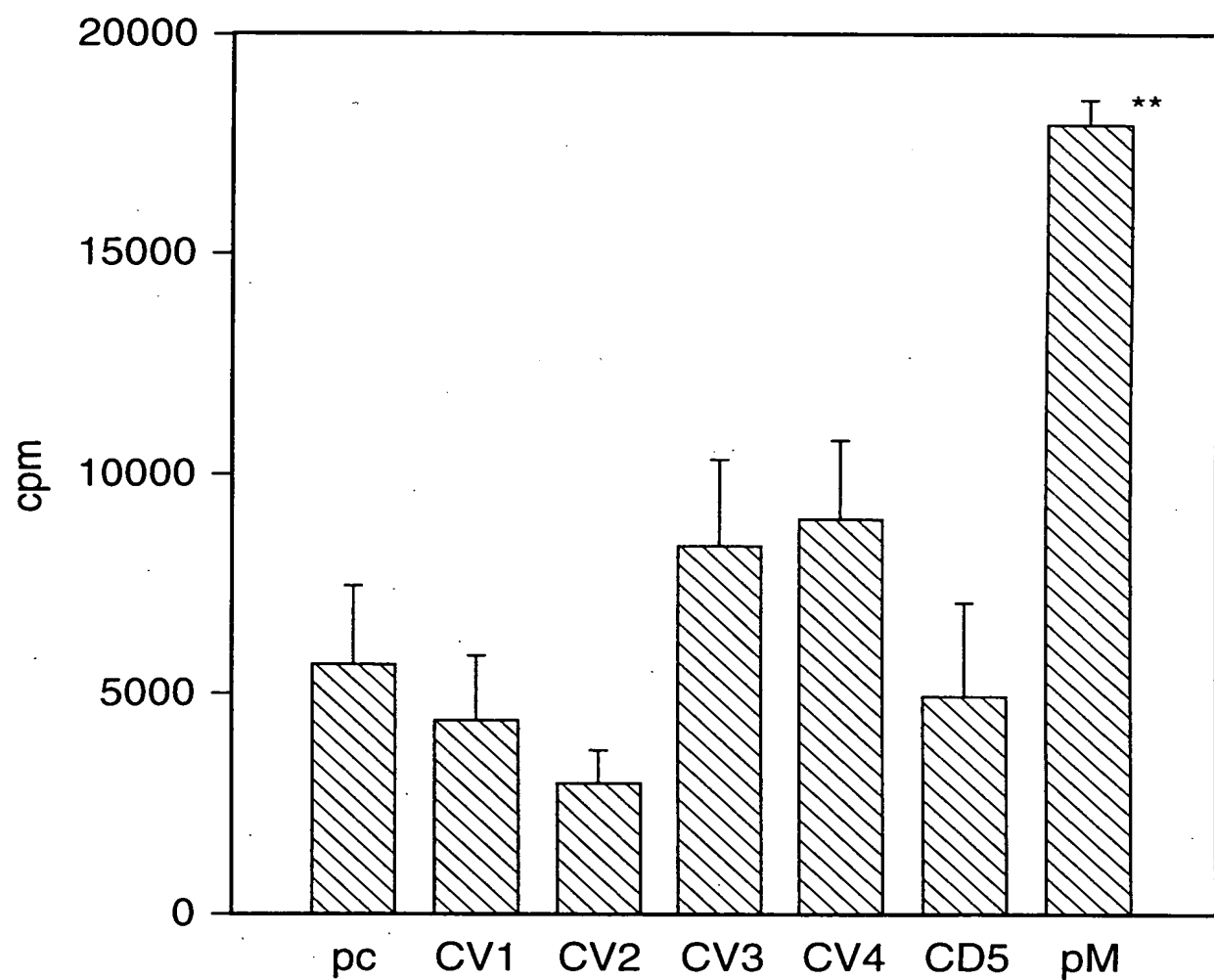


FIG.12

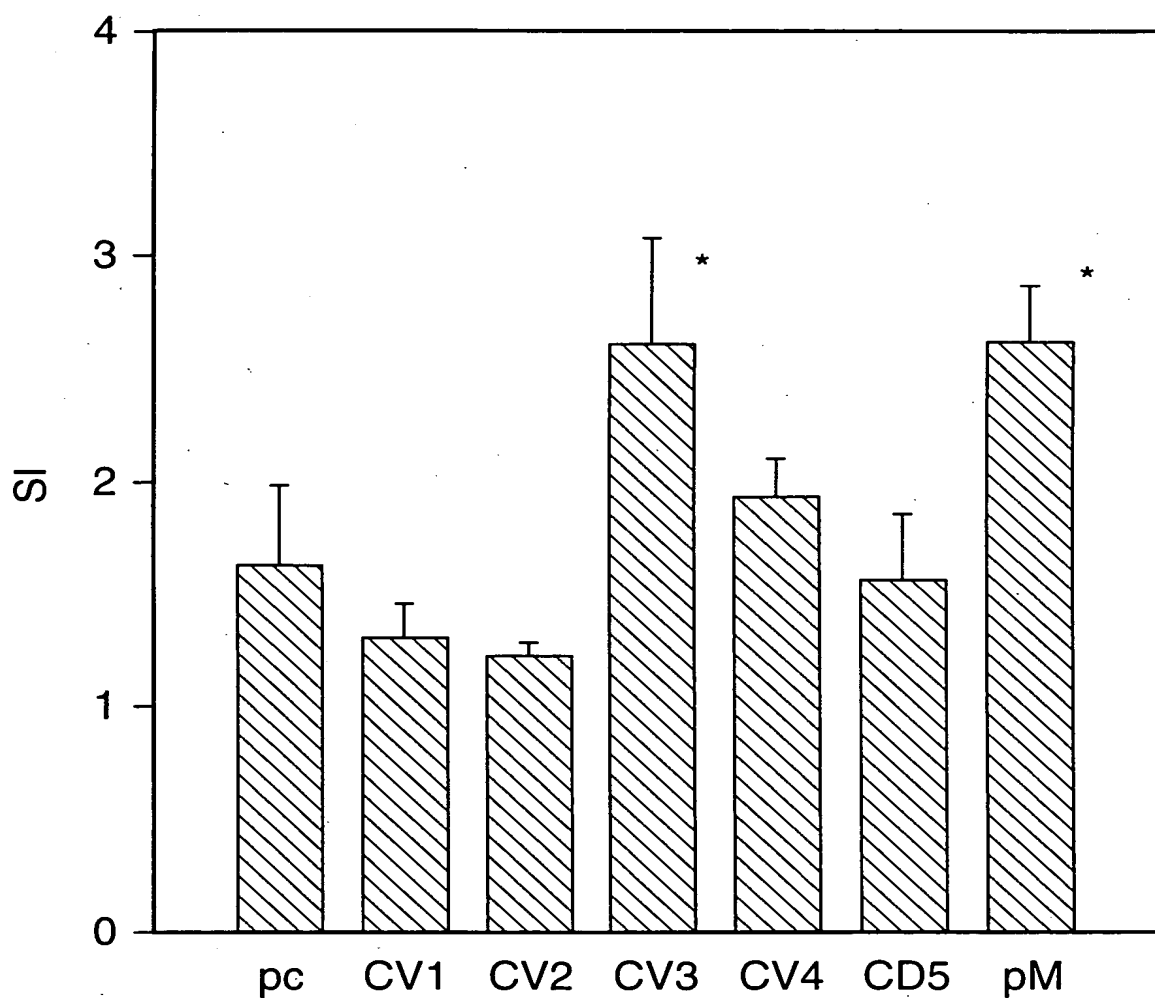


FIG.13

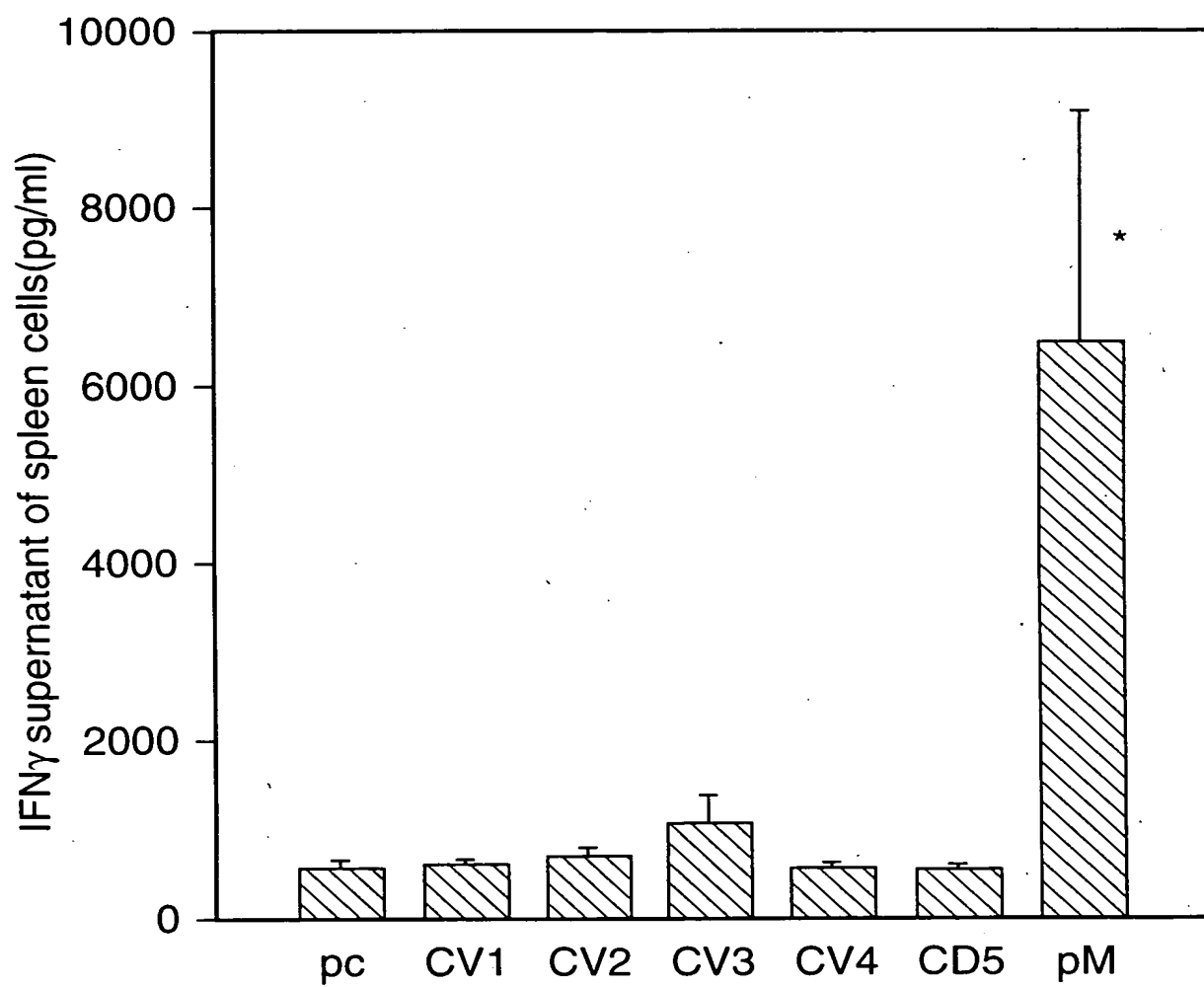


FIG.14

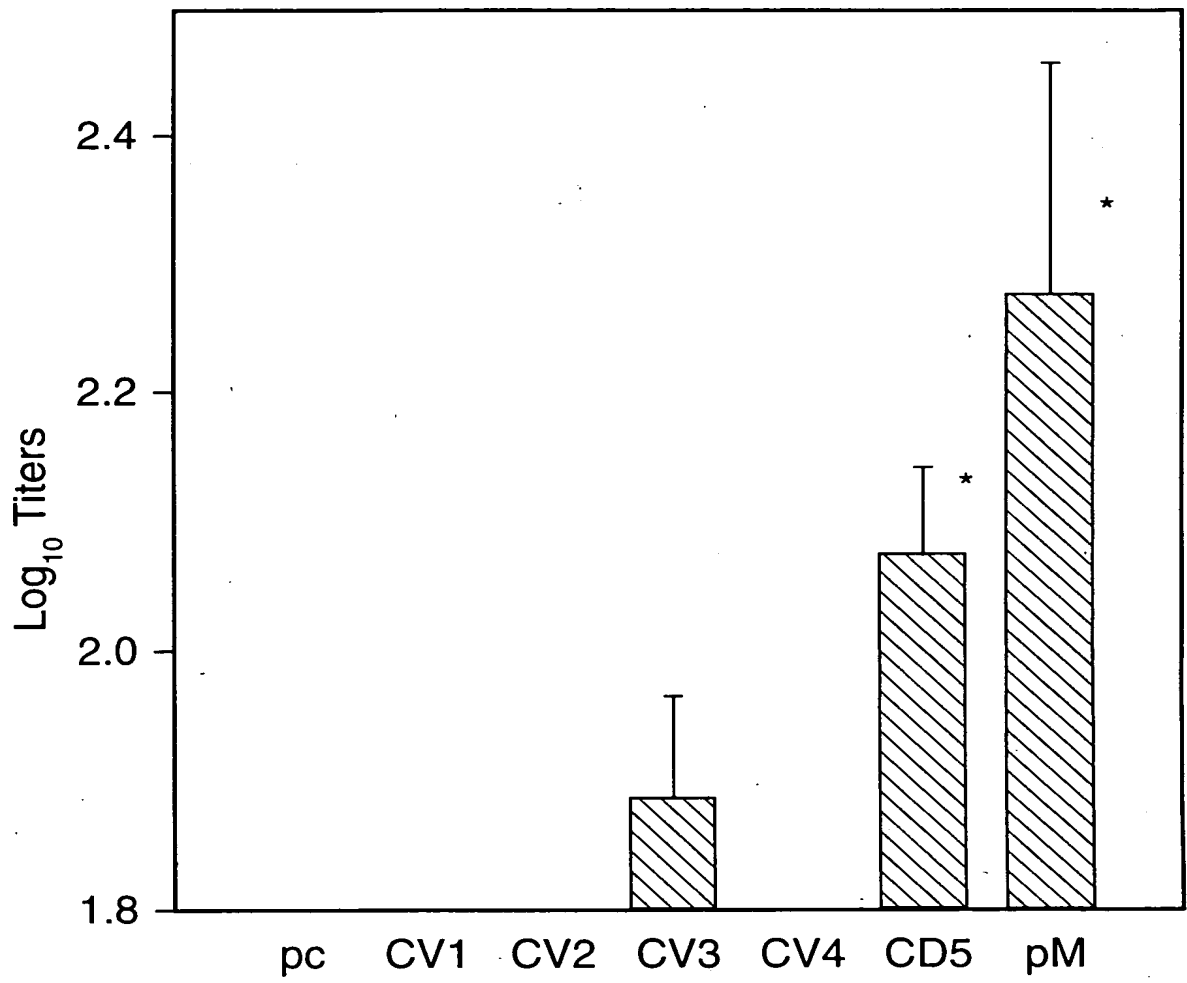


FIG.15



Figure 16

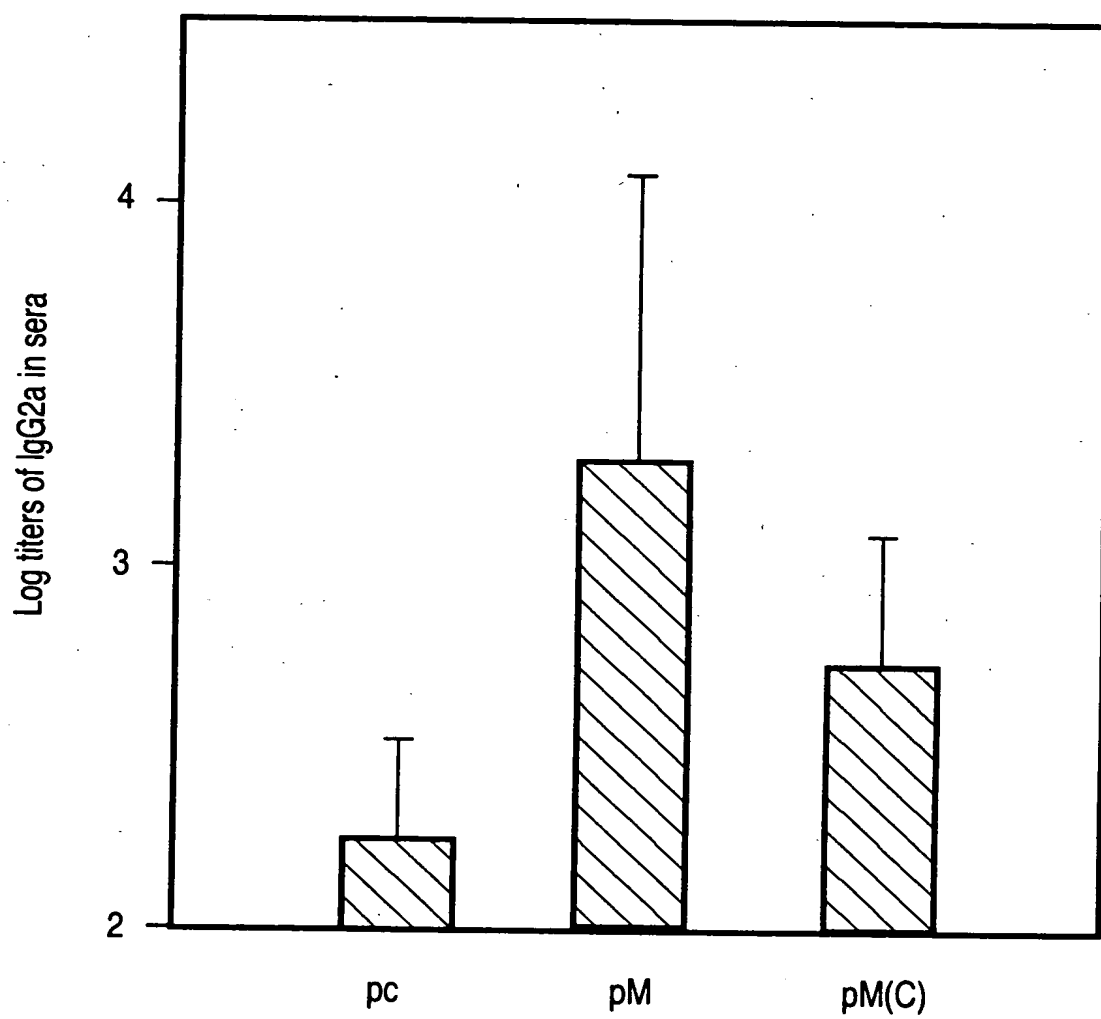


Figure 17

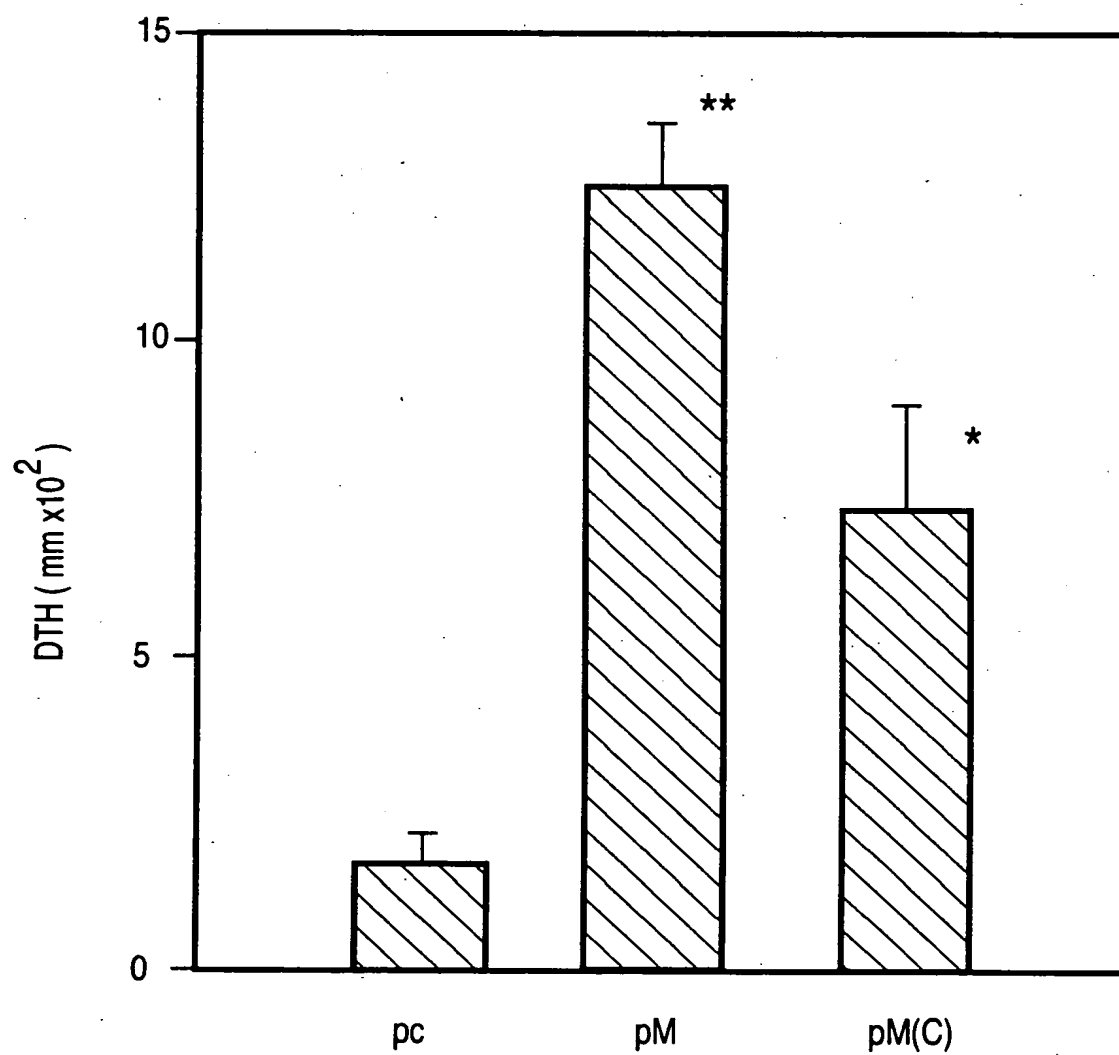


Figure 18

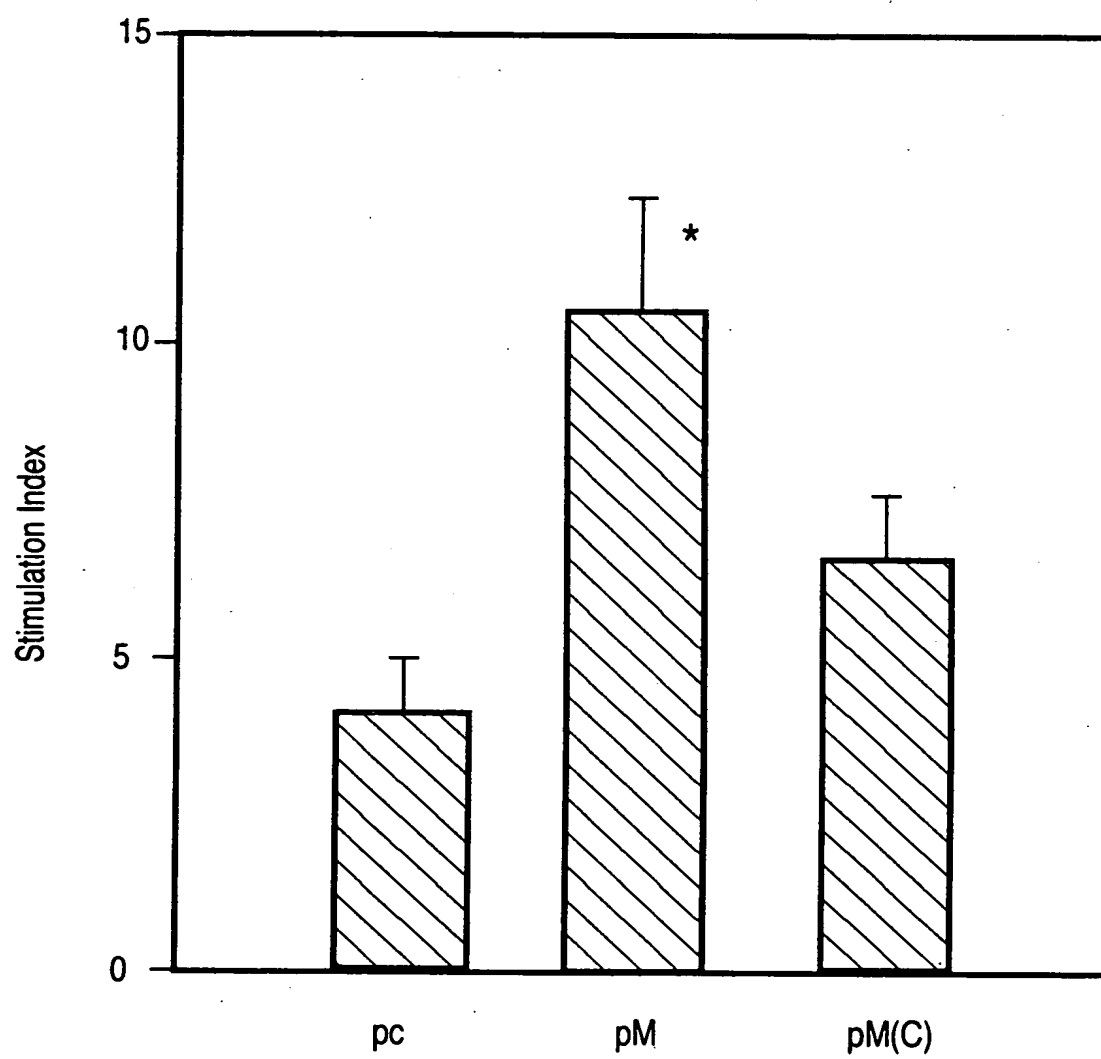


Figure 19

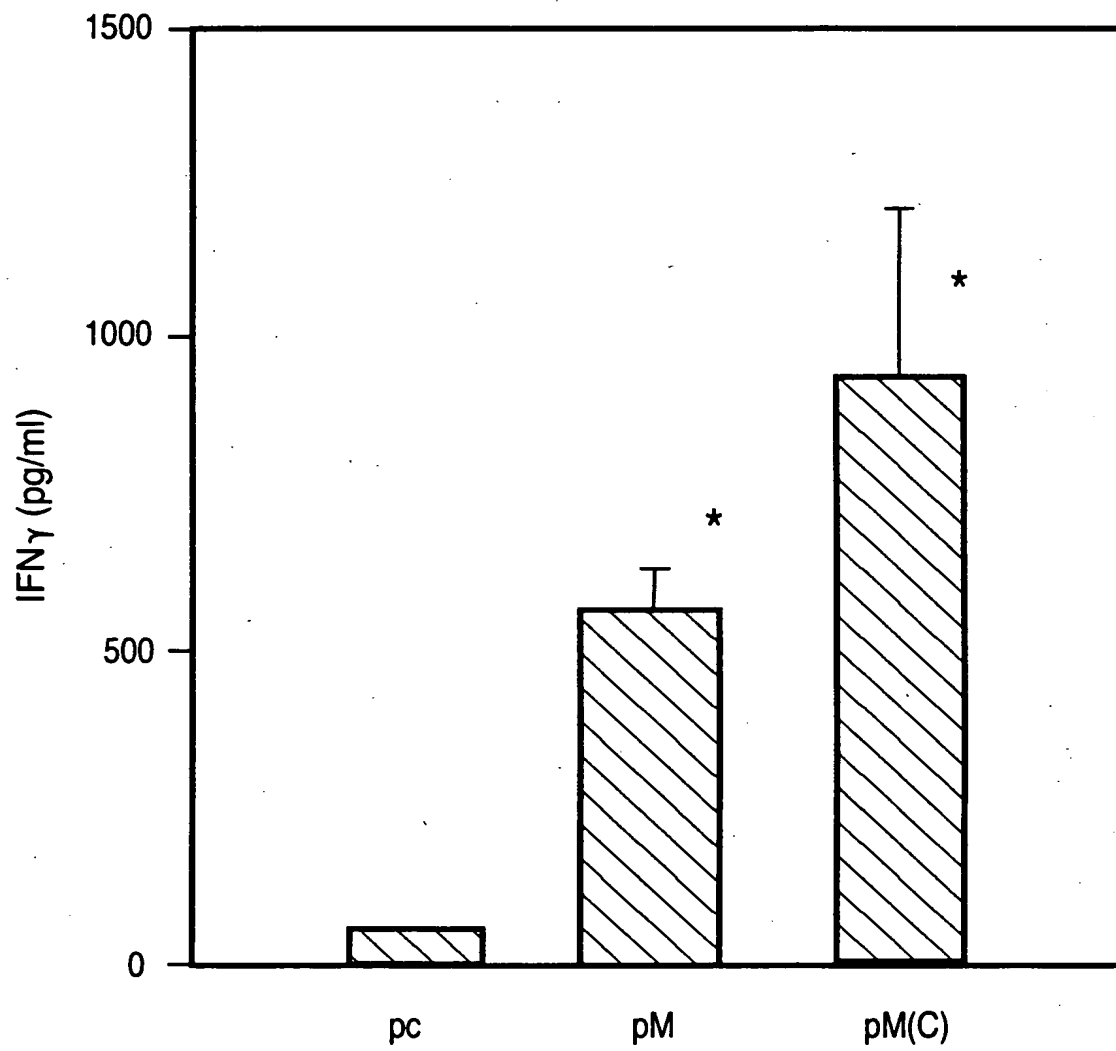


FIG. 20A

26

1

E	MKLLKSVLWFAAL-SSASSLQALPVCNPAEPPSILMIDGILWEGFGDP	C	D
B	.....		
L1	.....		
DA	.....		
L2	.....		
F	.....		
L3	.....		
A	.....		
C	.....		
H	.....		
MoPn	.....A.V.-G....H.....		
SFPD	.....A.V.-G....H.....		
GPIC	.....A.L...T-G..L.....L..TM...AS...		
Mn	.....A.L..TT-G..L.....L..TM...AS...		
HuPn	.....A.LS..FAG.VG.....SD...L..TI...AA...		

59

29 23

P	C	TIW	C	DAISMFMGYGDFVFDRVLKTDVNK	EFQ-MGDKPTSTTGNATAPTT	VD I	78
				.....	...-A...T....V..S.		78
				.....Q.....	...-A...A....A..S.		78
				.....E.....	..H-A...TD...SA..S.		78
				.....Q.....	...-A...TA....A..S.		78

FIG. 20B

76	E-..EALAGAS..T.--S.	
77	...-..AE..TSDTAGL-SND	V
77	...-..AA..TSDTAGL-EKD	
77	...-..AA..TSDTAGL-QND	V
77	...-..AA..TNDADL-QND	V
77	Q.E-..AA..G-DADL.TAP.	L.L.
76	Q.E-..PV..T.DTD.A.DI.	L.L.
75	TIS-..TA..---.N.A.DFK	I.A.
79	T.SG.AAT..QA..N.SMTNQ	I.A.
73	T.S-..A...---.S.A.--N	L.A.F.

E	LT---ARE	NPAYGRHMQDAEMFTNAACMAINIWDRFDFVF	C	TLGASSGYL
B	.---...	.....	.	.....
L1	C.---...	.....	.	T.....
DA	.---...	.....	.	T.....
L2	C.---...	.....	.	T.....
F	.SKLVE.T	.....	.	T.....
L3	P.TNW..P	.....	.	TT.....
A	PVANV..P	.....	.	TT.....
C	P.TNW..P	.....	.	TT.....
H	PKTNV..P	.....	.	TT.....

FIG. 20C

MoPn	-PA--S...	K...	Y...	T...
SFPD	TST--P...	K...	Y...	T...
GPIC	TVA--D.N	I...K...	WS...FL...	N...
Mn	PEAN-G.P	I...	E...W.S...FL...I...	N...F
HuPn	Y.TAVD.P	NK.LH...	W...GFI...	N...I

139

159

— VD II —	
KGNSAFNLVGLFG	DNEQSTVKTNS-----VPNMSLDQS
.....	N...TK..SNGAF-----
.....	.....KDA-----F..
.....	.....K...AE.-----F..
.....	.....HA..SDSKL-----
.....	GV.ATKPAAD.-----I..VQ.N..
.....	TKTQSTNFN.AKL-----TA.N.A
.....	TKTQS.GFD.ANI-----TA.N.A
.....	TKTQS.SFN.AKL-----I..TA.NEA
.....	TKTKS.DFN.AKL-----IA.NRA
.....	RD.TA-----VAADDI..V..S.A
.....	GVANAANAIAATVAADSL..V..S.A
A.A.A.....L.	VIG-----TDLQCG---Y..VAIS.G
AS..A.....I.	FSAAS.ISTDLPQG---L..VGIT.G
R...TA.....	VKG--T..N-ANE---L..V..SNG

FIG.20D

		182	184		210	
E	ARAALWE	C	G	C	ATLGASFQYAQSKPKVEELNVL	C NAAEFFTNKPKGY
B	.....	.....	.....	.....	.....	.....
L1	.....	.....	.....	.....	.....	.....
DA	.....	.....	.....	.....	.....	.....
L2	.....	.....	.....	.....	.....	.....
F	.....	.....	.....	I.....	.....	.....
L3	.....	.....	.....	.....	D.S.....	.....
A	.....	.....	.....	.....	S.....	.....
C	.....	.....	.....	.....	S.....	.....
H	.....	.....	.....	.....	S.....	.....
MoPn	.....	.....	.....	.....	.....	.....
SFPD	.....	.....	.....	.....	.....	.....
GPIC	.....	.....	.....	.....	.....	.....
Mn	.....	.....	.....	.....	.....	.....
HuPn	.....	.....	.....	.....	.....	.....
					223	233
					VD III	
	VG	--QEEPLALIAGTDA	ATGTDASIDYHEWQASIALSVRLNMF	TPYIGVKSRA		273
	..	--K.L..D.T.....	.....	.....	.....	274
	..	--K....D.T.....	.....	.....	.....	273
	..	--K....D.T.....	.....	.....	.....	273
	..	--....D.K...GV	.....	.....	.....	274



FIG.20E

..	--K...D.T....	.....S.....	274
..	--A...DIT...E.	.....V	276
..	--A...DIT...E.	.....V	276
..	--A...NIT...E.	.....V	276
..	--A...DIT...E.	.....V	276
..	--...NIK...VS	.....D.....	270
..	--K...T...S	.....D.....	279
K.	TAAN...P.T...ES	...D.S.T.K...IG...LV...N....	270
K.	ASSN...PIT...TE	...D.S.T.K...VG...LV...N....	280
K.	--VA...PTD..VAT	.....S.T.N...VGAS...SLV...Q....	269

287

316

E	SFDADTIRIAQPK	SATAIFDITTLNPTIAGAG-DVKASA----	EGQLG DT
B	.....	..ET...V.....T..-----	..
L1	.....	L.....-E...N.-----	..
DA	.....	.....TGT-----	..
L2	.....	..TV..V.....-----	..
F	...S.....R	LV.PW.I.....C.-S.AGANT---	IS ..
L3	.....	L.E.VL.V.....K.-S.V..GS---.NE.A ..	..
A	.....	L.KPVL.....K.-T.VS..-----NE.A ..	..
C	.....	L.E..L.V.....K.-S.VSAGT---DNE.A ..	..
H	.....	L.E..L.V.....K.-T.V..GS---DNE.A ..	..
MoPn	.....	LE.S.LKM..W....S.S.I..-----DTKIT ..	..

FIG.20F

SFPD	.....	L.E..L.V..W.....	TIADGTGAATANG.A ..
GPIC	T....S.....	LP...INL..W...LL.---	EATTINIG---AKYA .Q
Mn	T.....	LKSE.INI..W..SLI.ST-	TALPNNCK--DV.S .V
HuPn	T....N.....	LP..VINL.AW..SLL.---	NAT.LSIT---DSFS .F

335

MQIVSLQLNKMKSRKS	C	GIAVGTTIVDADKYAVIVETRLIDERAHVNAQFRE	371
.....	.....	.....	372
.....	.....	.....	371
.....	.....	.....	371
.....	.....	.....	372
.....	.....	.....	373
.....	.....	.....	375
.....	.....	V.....I.....	374
.....	.....	.....A.....	375
.....	.....	.....	375
L.....	.....	L.I.....	365
L.....	.....	L.I.....	382
L..A...I.....A ..	.....	A.LI...WSI.G.A..N.....	367
L..A.I.I.....A ..	.....	V...A.LI...WSI.G.A..N....M.....	380
.....C.I..F....A ..	.....	VT..A.L....WSL.A.A..N.....SG...	366